

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference LPB/P32058W0	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 00/ 03543	International filing date (day/month/year) 15/09/2000	(Earliest) Priority Date (day/month/year) 17/09/1999
Applicant UNIVERSITY OF LEEDS et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☒ furnished subsequently to this Authority in written form.

☒ furnished subsequently to this Authority in computer readable form.

☒ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☒ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

P88/GB 00/03543

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/82 C12N15/64 C12N15/65 A01H5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PEREDELCHUK M Y ET AL: "A method for construction of E. coli strains with multiple DNA insertions in the chromosome" GENE: AN INTERNATIONAL JOURNAL ON GENES AND GENOMES, GB, ELSEVIER SCIENCE PUBLISHERS, BARKING, vol. 187, no. 2, 18 March 1997 (1997-03-18), pages 231-238, XP004093285 ISSN: 0378-1119 the whole document	1, 2, 4, 9, 16
X	EP 0 299 552 A (SOLVAY ; CLOVIS MATTON N V (BE)) 18 January 1989 (1989-01-18) the whole document	1, 2, 15, 16



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

10 April 2001

Date of mailing of the international search report

26/04/2001

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/03543

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 21977 A (LIFE TECHNOLOGIES INC) 6 May 1999 (1999-05-06) figures 10B, 11A ---	16
P, X	ZUBKO ELENA ET AL: "Intrachromosomal recombination between attP regions as a tool to remove selectable marker genes from tobacco transgenes." NATURE BIOTECHNOLOGY, vol. 18, no. 4, April 2000 (2000-04), pages 442-445, XP002165150 ISSN: 1087-0156 the whole document ---	1-22
E	WO 01 07572 A (UNIV CALIFORNIA ;US AGRICULTURE (US)) 1 February 2001 (2001-02-01) the whole document ---	1-3, 5, 9, 12-20
A	YODER J I ET AL: "TRANSFORMATION SYSTEMS FOR GENERATING MARKER-FREE TRANSGENIC PLANTS" BIO/TECHNOLOGY, US, NATURE PUBLISHING CO. NEW YORK, vol. 12, no. 3, 1 March 1994 (1994-03-01), pages 263-267, XP002043802 ISSN: 0733-222X the whole document ---	12-15, 17-22
A	OW D W ET AL: "GENOME MANIPULATION THROUGH SITE-SPECIFIC RECOMBINATION" CRITICAL REVIEWS IN PLANT SCIENCES, US, CRC PRESS, BOCA RATON, FL, vol. 14, no. 3, 1995, pages 239-261, XP000614883 ISSN: 0735-2689 the whole document ---	12-15, 17-22
A	EP 0 911 412 A (JUJO PAPER CO LTD) 28 April 1999 (1999-04-28) the whole document ---	4, 12-15, 17-22
A	WO 94 17176 A (PURDUE RESEARCH FOUNDATION) 4 August 1994 (1994-08-04) the whole document ---	12-15, 17-22
A	EP 0 160 571 A (BIOTEKNIKA INTERNATIONAL) 6 November 1985 (1985-11-06) the whole document ---	1-22
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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/03543

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HORIE K ET AL: "A replacement vector used to introduce subtle mutations into mouse genes" GENE,NL,ELSEVIER BIOMEDICAL PRESS. AMSTERDAM, vol. 166, no. 2, 1995, pages 197-204, XP004043073 ISSN: 0378-1119 the whole document ----	1-22
A	WO 91 19796 A (BAYLOR COLLEGE MEDICINE) 26 December 1991 (1991-12-26) the whole document ----	1-22
A	D'ENFERT C: "Selection of multiple disruption events in Aspergillus fumigatus using the orotidine-5'-decarboxylase gene, pyrG, as a unique transformation marker" CURRENT GENETICS,US,NEW YORK, NY, vol. 30, no. 1, June 1996 (1996-06), pages 76-82, XP002107254 ISSN: 0172-8083 the whole document -----	1-22

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 00/03543

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